

US009636932B2

(12) United States Patent

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(10) Patent No.: US 9,636,932 B2

(45) **Date of Patent:** May 2, 2017

(54) TAPE PRINTER

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 257 days.

(21) Appl. No.: 14/468,793

(22) Filed: Aug. 26, 2014

(65) Prior Publication Data

US 2015/0076278 A1 Mar. 19, 2015

(30) Foreign Application Priority Data

Sep. 17, 2013 (JP) 2013-191719

(51) **Int. Cl.**

B41J 11/70 (2006.01) **B41J 13/10** (2006.01)

(Continued)

(52) U.S. Cl.

(58) Field of Classification Search

CPC .. B26D 1/085; B26D 1/305; B26D 2007/005; B41J 11/66; B41J 11/68; B41J 11/70;

B41J 11/703; B65C 9/1803; B65C 2210/007; B65H 29/20; B65H 29/22; B65H 29/36; B65H 29/70 See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

5,520,382 A *	5/1996	Nakajima B65H 5/222
		271/112
5,890,822 A *	4/1999	Saikawa B41J 13/106
		101/419

(Continued)

FOREIGN PATENT DOCUMENTS

EP	0636562	*	6/1994	B65H 35/00			
JP	61-025867	*	2/1986	B41J 13/14			
(Continued)							

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(57) ABSTRACT

A tape printer includes a guide portion guiding a label and having a first and a second guide portion. The first guide portion is arranged on a first end portion side with respect to a central line in a width direction of a feed path such that the portion does not include the central line in the width direction. The second guide portion is arranged on a second end portion side in the width direction such that the portion includes the central line. When a connecting portion connecting the first and the second guide portion is taken as a reference, the first guide portion is formed such that a height of the first guide portion substantially increases toward the first end portion side in the width direction. The second guide portion is formed such that a height of the second guide portion is substantially uniform in the width direction.

5 Claims, 7 Drawing Sheets

